AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1 to 10. (Canceled).

11. (New) A simulation system for computer-implemented simulation and verification of a control system under development, comprising:

a generic model animation and in-model calibration interface adapted to use measurement and calibration technologies with a host-target architecture, a host including at least one respective modeling tool and on target software of the control system is executed.

- 12. (New) The system according to claim 1, further comprising a target server adapted to connect the modeling tool with a target.
- 13. (New) The system according to claim 2, wherein the target server includes a protocol driver of a communication protocol adapted for communication with the target.
- 14. (New) The system according to claim 1, further comprising a plurality of simulation processes with corresponding memory and interface modules, the modules including distinct memory locations adapted for inter-module communication.
- 15. (New) The system according to claim 4, wherein simulation is performed by execution of a control system simulation model, the simulation model including a plurality of sub-models being performed on one of the plurality of modules respectively.
- 16. (New) The system according to claim 4, wherein at least some of the modules are dynamically reconfigurable for communication via distinct memory locations.

17. (New) A host of a simulation system for computer-implemented simulation and verification of a control system under development, comprising:

a generic model animation and in-model calibration interface adapted to use measurement and calibration technologies for a host-target architecture, the host including at least one respective modeling tool and a target server to connect the modeling tool with a target.

18. (New) A method, comprising:

computer-implemented simulating and verifying a control system under development by of a simulation system including a generic model animation and inmodel calibration interface adapted to use measurement and calibration technologies with a host-target architecture, a host including at least one respective modeling tool and on target software of the control system is executed.

19. (New) A computer-readable storage medium including a set of instructions executable by a computer, the set of instructions comprising:

computer-implemented simulating and verifying a control system under development by of a simulation system including a generic model animation and inmodel calibration interface adapted to use measurement and calibration technologies with a host-target architecture, a host including at least one respective modeling tool and on target software of the control system is executed.